
MS4 Information

Jurisdiction	Frederick County, Maryland
Contact Name	Shannon Moore
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Address	30 North Market St
City	Frederick
State	Maryland
Zip	21701
Email	smoore@frederickcountymd.gov
Impervious Acre Baseline (Untreated Acres)	NA- current permit administratively extended
Permit Number	11-DP-3321 MD0068357
Reporting Year	2020

Check with MS4 Geodatabase:

Does not match Permit Info table of Geodatabase. Those numbers reflect entire administratively extended permit, where this is just post permit end date per email from Brian Cooper dated 12/22/2020

VERSION 8/20/20

Article 4-202.1(j)(1)(i)1: Actions that will be required of the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

Note: To identify all "actions" required under the MS4 permit, provide an executive summary of the jurisdiction's MS4 programs. See MDE's FAP Guidance. For proposed actions to meet the impervious surface restoration plan, fill in the table below.

Baseline: 1,981

REST BMP TYPE ¹	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS ²	PROJECTED IMPL YR ³
Operational Programs⁴						
VSS	A	96	\$45,710	4.8%	Planning	FY21
VSS	A	96	\$45,710	4.8%	Planning	FY22
VSS	A	96	\$45,710	4.8%	Planning	FY23
VSS	A	96	\$45,710	4.8%	Planning	FY24
VSS	A	96	\$45,710	4.8%	Planning	FY25
Average Operations Next Two Years (FY2021-FY2022) ⁵		0	\$91,420	0.0%		
Average Operations Next Five Years (FY2021-FY2025) ⁵		0	\$228,550	0.0%		
Average Operations All Years ⁵		6	\$238,000	0.3%		
Capital Projects						
FPU	A	5.38	\$0	0.3%	Under Construction	FY21
FPU	A	0.12	\$21,464	0.0%	Under Construction	FY21
FPU	A	0.09	\$3,567	0.0%	Under Construction	FY21
FPU	A	0.92	\$21,464	0.0%	Under Construction	FY21
FPU	A	2.15	\$21,464	0.1%	Under Construction	FY21
FPU	A	1.82	\$21,464	0.1%	Under Construction	FY21
FPU	A	0.21	\$3,567	0.0%	Under Construction	FY21
FPU	A	3.98	\$39,761	0.2%	Under Construction	FY21
FPU	A	0.49	\$21,464	0.0%	Under Construction	FY21
FPU	A	1.36	\$21,464	0.1%	Under Construction	FY21
FPU	A	0.10	\$3,567	0.0%	Under Construction	FY21
FPU	A	0.44	\$3,382	0.0%	Under Construction	FY22
FPU	A	7.96	\$61,892	0.4%	Under Construction	FY22
FPU	A	0.81	\$263,315	0.0%	Under Construction	FY22
FPU	A	4.17	\$47,571	0.2%	Under Construction	FY22
FPU	A	3.83	\$61,892	0.2%	Under Construction	FY22
FPU	A	6.60	\$99,436	0.3%	Under Construction	FY22
FPU	A	0.21	\$2,911	0.0%	Under Construction	FY22
FPU	A	1.01	\$40,308	0.1%	Under Construction	FY22
FPU	A	0.14	\$1,940	0.0%	Under Construction	FY22
FPU	A	2.90	\$416,293	0.1%	Under Construction	FY22
FPU	A	6.60	\$263,315	0.3%	Under Construction	FY22
FPU	A	5.74	\$230,668	0.3%	Under Construction	FY22
FPU	A	0.33	\$12,221	0.0%	Under Construction	FY22
FPU	A	2.31	\$91,743	0.1%	Under Construction	FY22
FPU	A	0.85	\$32,172	0.0%	Under Construction	FY22
FPU	A	0.12	\$1,663	0.0%	Under Construction	FY22
FPU	A	2.49	\$12,221	0.1%	Under Construction	FY22
FPU	A	10.48	\$416,293	0.5%	Under Construction	FY22
FPU	A	0.55	\$7,272	0.0%	Under Construction	FY22
FPU	A	2.40	\$61,892	0.1%	Under Construction	FY22
FSND	S	14.91	\$1,046,014	0.8%	Under Construction	FY21
PWED	S	11.75	\$1,262,880	0.6%	Under Construction	FY21
PWED	S	1.90	\$387,810	0.1%	Under Construction	FY21
PWED	S	6.78	\$766,486	0.3%	Under Construction	FY21
PWET	S	12.71	\$1,460,860	0.6%	Under Construction	FY21
PWED	S	24.53	\$758,439	1.2%	Planning	FY22
PWED	S	20.02	\$1,013,265	1.0%	Planning	FY22
PWED	S	6.50	\$713,720	0.3%	Planning	FY22
PWED	S	9.30	\$732,379	0.5%	Planning	FY22
PWED	S	16.83	\$907,411	0.8%	Planning	FY24
PWED	S	17.85	\$928,310	0.9%	Planning	FY23
PWED	S	13.60	\$657,000	0.7%	Planning	FY22
PWET	S	7.99	\$442,583	0.4%	Planning	FY21
MSWVG	S	0.30	\$207,226	0.0%	Planning	FY24
PWED	S	10.39	\$532,198	0.5%	Planning	FY21
PWED	S	28.41	\$1,208,273	1.4%	Planning	FY23
PWED	S	2.07	\$683,650	0.1%	Planning	FY22

PWET	S	18.71	\$1,247,809	0.9%	Planning	FY21
PWED	S	7.54	\$756,251	0.4%	Planning	FY23
PWED	S	2.23	\$926,822	0.1%	Planning	FY21
PWED	S	24.19	\$1,481,694	1.2%	Planning	FY23
PWED	S	17.73	\$1,025,760	0.9%	Planning	FY25
PWED	S	25.51	\$1,287,290	1.3%	Planning	FY25
PWED	S	13.05	\$756,972	0.7%	Planning	FY24
PWED	S	21.77	\$1,257,903	1.1%	Planning	FY24
ITRN	S	14.38	\$885,125	0.7%	Planning	FY24
FBIO	S	18.50	\$243,260	0.9%	Planning	FY22
FBIO	S	9.25	\$217,948	0.5%	Planning	FY22
PWED	S	17.68	\$973,759	0.9%	Planning	FY24
STRE	A	13.80	\$325,352	0.7%	Planning	FY21
STRE	A	6.80	\$377,857	0.3%	Planning	FY22
STRE	A	24.00	\$882,844	1.2%	Planning	FY22
STRE	A	19.60	\$1,211,957	1.0%	Planning	FY22
STRE	A	12.00	\$643,748	0.6%	Planning	FY22
STRE	A	24.14	\$2,882,210	1.2%	Planning	FY21
STRE	A	25.00	\$27,720	1.3%	Planning	FY23
STRE	A	34.76	\$2,058,284	1.8%	Planning	FY23
STRE	A	41.00	\$2,221,639	2.1%	Planning	FY24
STRE	A	87.38	\$3,546,675	4.4%	Planning	FY25
STRE	A	23.98	\$954,395	1.2%	Planning	FY25
FPU	A	0.81	\$32,486	0.0%	Planning	FY23
FPU	A	1.12	\$44,647	0.1%	Planning	FY23
FPU	A	2.71	\$108,506	0.1%	Planning	FY23
FPU	A	0.72	\$28,694	0.0%	Planning	FY23
FPU	A	2.03	\$81,319	0.1%	Planning	FY23
FPU	A	1.87	\$74,707	0.1%	Planning	FY23
FPU	A	0.99	\$39,643	0.1%	Planning	FY23
FPU	A	2.25	\$89,859	0.1%	Planning	FY23
FPU	A	6.83	\$273,373	0.3%	Planning	FY23
FPU	A	1.91	\$76,545	0.1%	Planning	FY23
FPU	A	2.06	\$82,412	0.1%	Planning	FY23
FPU	A	2.46	\$98,565	0.1%	Planning	FY23
FPU	A	5.08	\$203,164	0.3%	Planning	FY23
FPU	A	5.16	\$206,233	0.3%	Planning	FY23
FPU	A	10.33	\$413,219	0.5%	Planning	FY23
FPU	A	0.61	\$24,277	0.0%	Planning	FY24
FPU	A	0.18	\$7,157	0.0%	Planning	FY24
FPU	A	2.62	\$104,753	0.1%	Planning	FY24
FPU	A	0.20	\$7,984	0.0%	Planning	FY24
FPU	A	0.98	\$39,094	0.0%	Planning	FY24
FPU	A	0.20	\$8,154	0.0%	Planning	FY24
FPU	A	0.13	\$5,293	0.0%	Planning	FY24
FPU	A	0.27	\$10,944	0.0%	Planning	FY24
FPU	A	1.97	\$78,916	0.1%	Planning	FY24
FPU	A	0.68	\$27,378	0.0%	Planning	FY24
FPU	A	0.93	\$37,201	0.0%	Planning	FY24
FPU	A	1.41	\$56,373	0.1%	Planning	FY24
FPU	A	0.61	\$24,531	0.0%	Planning	FY24
FPU	A	0.38	\$15,278	0.0%	Planning	FY24
FPU	A	0.58	\$23,285	0.0%	Planning	FY24
FPU	A	1.42	\$56,952	0.1%	Planning	FY24
FPU	A	1.17	\$46,630	0.1%	Planning	FY24
FPU	A	2.12	\$84,925	0.1%	Planning	FY24
FPU	A	0.61	\$24,313	0.0%	Planning	FY24
FPU	A	0.53	\$21,160	0.0%	Planning	FY24
FPU	A	0.26	\$10,280	0.0%	Planning	FY24
FPU	A	0.52	\$20,716	0.0%	Planning	FY24
FPU	A	0.23	\$9,012	0.0%	Planning	FY24
FPU	A	0.81	\$32,333	0.0%	Planning	FY24
FPU	A	2.89	\$115,746	0.1%	Planning	FY24
Subtotal Capital Next Two Years (FY2021-FY2022)		368	\$21,724,735	19%		
Subtotal Capital Next Five Years (FY2021-FY2025)		854	\$44,955,482	43%		
Subtotal Capital All Years		854	\$44,955,482	43%		
Other						

				0.0%		
				0.0%		
Subtotal Other Next Two Years (FY2021-FY2022)		0	\$0	0.0%		
Subtotal Other Next Five Years (FY2021-FY2025)		0	\$0	0.0%		
Subtotal Other All Years		755	\$626,900	38.1%		
Total Next Two Years (FY2021-FY2022)		368	\$21,816,155	18.6%		
Total Next Five Years (FY2021-FY2025)		854	\$45,184,032	43.1%		
Total All Years*		1,615	\$45,820,382	81.5%		

***Includes 708.1 acres carried over from previous permit**

Check with MS4 Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)- aggregated by type and status.

Notes:

1. Use BMP domains from the MS4 Geodatabase.
2. Complete, Under Construction, Planning, or Proposed.
3. Use Fiscal Year (FY)
4. For street sweeping indicate the annual frequency that the streets are swept, and for storm drain or catch basin cleaning report the pounds of material removed.
5. Average IMP ACRES for Operational BMPs should be the average of BMP 1 + the average of BMP 2, etc.
IMPL COST is a summation and not an average.

VERSION 8/20/20

Article 4-202.1(j)(1)(i)2: Projected annual and 5-year costs for the county or municipality to meet the impervious surface restoration plan requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	PAST UP THRU FY 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL COSTS
Operating Expenditures (costs)								
Street Sweeping Program	\$0	\$9,450	\$31,946	\$32,905	\$33,892	\$34,909	\$35,956	\$179,058
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Support of Capital Projects	\$0	\$577,028	\$456,781	\$686,003	\$706,583	\$727,781	\$749,614	\$3,903,790
Debt Service Payment	\$0	\$322,367	\$569,973	\$637,808	\$638,034	\$1,984,393	\$1,984,372	\$6,136,948
Other (please stipulate program expenditure)*	-	-	-	-	-	-	-	\$0
Capital Expenditures (costs)								
General Fund (Paygo)	\$0	\$3,181,950	\$1,415,000	\$180,000	\$180,000	\$1,919,544	\$2,359,570	\$9,236,064
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt Service	\$0	\$3,863,449	\$4,915,543	\$6,087,401	\$5,379,702	\$5,104,779	\$4,005,830	\$29,356,704
Grants & Partnerships	\$0	\$400,000	\$530,000	\$130,000	\$130,000	\$130,000	\$130,000	\$1,450,000
Other (Partnership Funds Non-County)*	-	-	\$494,000	\$173,926	-	-	-	\$667,926
Subtotal Operation and Paygo:	\$0	\$4,090,795	\$2,967,701	\$1,710,642	\$1,558,510	\$4,666,626	\$5,129,512	\$20,123,786
Total Expenditures:	\$0	\$8,354,244	\$8,413,244	\$7,928,043	\$7,068,212	\$9,901,405	\$9,265,342	\$50,930,490
Total ISRP costs except debt service:								\$44,793,542
Compare ISRP costs (except debt service) / total ISRP proposed actions:								98%

Check with MS4 Geodatabase:

The total current FY2020 expenditure should be less than the combined total of the "OP_COST" and "CAP_COST" fields in the Fiscal Analyses table of the geodatabase.

The total projected FY2021 expenditure should be less than the combined total of the "OP_BUDGET" and "CAP_BUDGET" fields in the Fiscal Analyses table of the geodatabase.

Article 4-202.1(j)(1)(i)3: Projected annual and 5-year revenues or other funds that will be used to meet the cost for the county or municipality to meet the impervious surface restoration plan requirements under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	PAST UP THRU FY 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL NEXT 2-YEARS FY 21-22 ¹	TOTAL
Annual Revenue ² Appropriated for ISRP	\$0	\$8,354,244	\$8,413,244	\$7,928,043	\$7,068,212	\$9,901,405	\$9,265,342	\$16,341,287	\$50,930,490
Annual Costs towards ISRP ³	\$0	\$6,627,260	\$8,413,244	\$7,928,043	\$7,068,212	\$9,901,405	\$9,265,342	\$16,341,287	\$49,203,506

Compare revenue appropriated / annual costs: **100%**
WPRP 2020 Reporting Criteria: **100%**

ISRP = Impervious Surface Restoration Program

Notes:

- Article 4-202.1(j)(2): Demonstration that county or municipality has sufficient funding in the current fiscal year and subsequent fiscal year budgets to meet its estimated cost for the 2-year period immediately following the filing date of the FAP.
- Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)).
- Used CIP expenditures from Annual Report Program Funding spreadsheet plus debt service, street sweeping, support of capital projects, grants from ISRP Cost tab.

Article 4-202.1(j)(1)(i)4: Any sources of funds that will be utilized by the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

SOURCE	PAST UP THRU FY 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL NEXT FIVE YEARS
Paygo Sources								
Stormwater Remediation Fees (WPR Fund)	\$ -	\$ 536	\$ 536	\$ 536	\$ 536	\$ 536	\$ 536	\$ 2,680
Miscellaneous Fees (WPR Fund)								\$ -
General Fund	\$ -	\$ 577,028	\$ 456,781	\$ 686,003	\$ 706,583	\$ 727,781	\$ 749,614	\$ 3,326,762
Other Funds 1 (CIP)	\$ -	\$ 3,181,950	\$ 1,415,000	\$ 180,000	\$ 180,000	\$ 1,919,544	\$ 2,359,570	\$ 6,054,114
Other Funds 2 (Operating)	\$ -	\$ 1,823,303	\$ 1,878,002	\$ 1,934,342	\$ 1,992,372	\$ 2,052,143	\$ 2,113,708	\$ 9,970,567
Other Funds 3 (please stipulate funding source)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Paygo Sources	\$ -	\$ 5,582,817	\$ 3,750,319	\$ 2,800,881	\$ 2,879,491	\$ 4,700,004	\$ 5,223,428	\$ 19,354,123
Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2017).								
County Transportation Bonds								\$ -
General Obligation Bonds	\$ -	\$ 3,863,449	\$ 4,915,543	\$ 6,087,401	\$ 5,379,702	\$ 5,104,779	\$ 4,005,830	\$ 25,493,255
Revenue (Utility) Bonds								\$ -
State Revolving Loan Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public-private partnership (debt service)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Debt Service	\$ -	\$ 3,863,449	\$ 4,915,543	\$ 6,087,401	\$ 5,379,702	\$ 5,104,779	\$ 4,005,830	\$ 25,493,255
Grants and Partnerships (no payment is expected)								
State funded grants	\$ -	\$ 400,000	\$ 1,024,000	\$ 303,926	\$ 130,000	\$ 130,000	\$ 130,000	\$ 1,717,926
Federal funded grants								\$ -
Public-private partnership (matched grant)								\$ -
Subtotal Grants and Partnerships	\$ -	\$ 400,000	\$ 1,024,000	\$ 303,926	\$ 130,000	\$ 130,000	\$ 130,000	\$ 1,717,926
Total Annual Sources of Funds	\$ -	\$ 9,846,266	\$ 9,689,862	\$ 9,192,208	\$ 8,389,193	\$ 9,934,783	\$ 9,359,258	\$ 46,565,304
Percent of Funds Directed Toward ISRP								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: **83%**
 Compare total permit term ISRP costs / total permit term annual sources of funds: **91%**

* WPR Fund: Watershed Protection and Restoration Fund

Check with MS4 Geodatabase:

The total sources related to WPR Funds in Current FY2020 should match the "WPR_FUND" field of the geodatabase.

Article 4-202.1(j)(1)(j)5: Specific actions and expenditures that the county or municipality implemented in the previous fiscal years to meet its impervious surface restoration plan requirements under its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

Baseline:*

1,981

Requirement:

NA

REST BMP ID	REST BMP TYPE ¹	BMP CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS ²	GEN COMMENTS
Operational Programs³									
VSS		A	1	29.05	6/30/2020	\$9,450	1.5%	Complete	7/1/2020-12/31/2020 72.63 tons swept/29.05 impervious acre credit
Average Operations Complete To Date ⁴			1	5.81		\$9,450	0.3%		
Capital Projects									
Subtotal Capital Complete To Date			0	0		\$0	0.00%	Complete	
Other									
n/a	SEPC	A	6	2.16	12/31/2019	\$0	0.1%	Complete	
n/a	SEPD	A	10	2.60	12/31/2019	\$0	0.1%	Complete	
n/a	SEPP	A	1,123	33.69	12/31/2019	\$0	1.7%	Complete	
REDE	OTH	A	7	8.59	12/31/2019	\$0	0.4%	Complete	
TRADING	OTH	A	0	595.80	12/31/2019	\$18,000	30.1%	Complete	FY19 Cost was 18,000. FY20 cost is estimated to be similar and will be reported in the future. Frederick County is buying \$95.8 in FY20. Orininal credits were 708.1; have replaced 112.3 in FY20.
FR17RST800007	FSND	S	1	4.39	4/1/2020	\$295,000	0.2%	Complete	Completed after December 29, 2019. Projects are paying back nutrient trading.
FR17ALN000008	STRE	A	1	103.93	5/1/2020	\$30,000	5.2%	Complete	Completed after December 29, 2019. Projects are paying back nutrient trading.
FR17ALN000004	STRE	A	1	3.98	6/30/2020	\$280,000	0.2%	Complete	Completed after December 29, 2019. Projects are paying back nutrient trading.
FR20ALN000266	OUT	A	1	0.16	1/23/2020	\$3,900	0.0%	Complete	
Subtotal Other Complete To Date			1,150	755		\$626,900	38.1%		
Total Complete to Date			1,151	761		\$636,350	38.4%		

*Left baseline number. Otherwise, all numbers in %ISRP would be errors; however, no goal has been set for next permit term to date.

Check with MS4 Geodatabase:

Rest BMP ID, type, class, number of BMPs, impervious acres, built date, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)– aggregated by type and status.

Notes:

1. Use BMP domains from the MS4 Geodatabase.
2. Complete, Under Construction, Planning, or Proposed.
3. For street sweeping indicate the annual frequency that the streets are swept, and for storm drain or catch basin cleaning report the pounds of material removed.
4. Average IMP ACRES for Operational BMPs should be the average of BMP 1 + the average of BMP 2, etc.